IN THE CLAIMS

Please amend the Claims as follows:

1. (original) A video amplifier circuit comprising:

a first stage amplifier having a high signal gain and a low noise figure and

having an input coupled to a video input signal and an output;

a second stage amplifier having a high output power and a low distortion

and having an input electrically coupled to the output of the first stage amplifier

and an output; and

a splitter circuit having an input coupled to the output of the second stage

amplifier and a plurality of outputs.

2. (original) The video amplifier circuit of Claim I wherein the output power of the

second stage amplifier is greater than 23 decibels millivolts (dBmV) and wherein

the distortion of the second stage amplifier is no greater than about CTB 56 dBc,

CSO 58 dBc.

3. (original) The video amplifier circuit of Claim 2 wherein the signal gain of the

first stage amplifier is greater than 15 decibels (dB) and the noise figure of the

first stage amplifier is less than 3.5 dB.

Serial No. 09/764,544

Examiner: Beliveau, Scott

Art Unit: 2614

4. (original) The video amplifier circuit of Claim 3 wherein the noise figure of the

first stage amplifier is less than 1.5 dB.

5. (original) The video amplifier circuit of Claim 3 wherein the first stage amplifier

is an RF2320 amplifier and the second stage amplifier is an RF2317 amplifier.

6. (original) The video amplifier circuit of Claim 1 wherein the splitter circuit

includes more than 16 outputs.

7. (original) The video amplifier circuit of Claim 1 further comprising:

a first matching circuit coupling the video input to the input of the first

stage amplifier;

a second matching circuit coupling the output of the first stage amplifier to

the input of the second stage amplifier;

a first biasing circuit electrically coupled to the output of the first stage

amplifier;

a second biasing circuit electrically coupled to the output of the second

stage amplifier; and

a direct current (DC) blocking circuit coupling the output of the second

stage amplifier to the input of the splitter circuit.

Serial No. 09/764,544

Examiner: Beliveau, Scott

Art Unit: 2614

Art Unit: 2614

8. (original) The video amplifier circuit of Claim 1 wherein the video input signal

comprises a video input/output signal for bi-directional communications and

wherein the video amplifier circuit further comprises:

a diplexer circuit having an input electrically coupled to the video

input/output signal and a high frequency output electrically coupled to the input of

the first stage amplifier and a low frequency connector;

a return channel amplifier circuit electrically coupled between the low

frequency connector of the diplexer and the input of the splitter circuit; and

a combiner circuit coupling the return channel amplifier and the second

stage amplifier to the input of the splitter circuit.

9. (original) The video amplifier circuit of Claim 8 wherein the bi-directional

communications comprises digital over cable systems interface specification

(DOCSIS) protocol communications.

10. (original) The video amplifier circuit of Claim 8 farther comprising:

a first return channel matching circuit coupling the return channel amplifier

to the combiner circuit; and

a second return channel matching circuit coupling the return channel

amplifier to the diplexer circuit.

Serial No. 09/764,544

Examiner: Beliveau, Scott

11. (currently amended) A cable distribution module for routing a DOCSIS

compatible connection with a cable network to a plurality of connection points,

the module comprising:

a cable input configured to be connected to the cable network;

a diplexer circuit electrically coupled to the cable input that splits a signal

on the cable input into a forward and a return channel;

a return channel amplifier circuit electrically coupled between the plurality

of connection points and the diplexer circuit on the return channel;

a two stage amplifier circuit electrically coupled between the diplexer

circuit and the plurality of connection points on the forward channel, the two

stage amplifier circuit including a first stage amplifier having a high signal gain

and a low noise figure and a second stage amplifier having a high output power

and a low distortion wherein an output of said first stage amplifier is electrically

coupled to an input of said second stage amplifier;

a <u>first</u> combiner circuit coupling the return channel amplifier circuit and the

two stage amplifier circuit to the plurality of connection points; and

a splitter circuit coupling the combiner circuit to the plurality of connection

points.

12. (original) The cable distribution module of Claim 11 wherein the output power

of the second stage amplifier is greater than 23 decibels (dB) and wherein the

Serial No. 09/764.544

Examiner: Beliveau, Scott

Art Unit: 2614

distortion of the second stage amplifier is no greater than about CTB 56 dBc,

CSO 58 dBc.

13. (original) The cable distribution module of Claim 12 wherein the signal gain of

the first stage amplifier is greater than 15 decibels (dB) and the noise figure of

the first stage amplifier is less than 3.5 dB.

14. (original) The video amplifier circuit of Claim 13 wherein the noise figure of

the first stage amplifier is less than 1.5 dB.

15. (original) The cable distribution module of Claim 13 wherein the first stage

amplifier is an R1F2320 amplifier and the second stage amplifier is an RF2317

amplifier.

16. (original) The cable distribution module of Claim 15 further comprising:

at least one internal video signal input;

an internal signal amplifier circuit electrically coupled to the at least on

internal video signal input; and

a second combiner circuit coupled between the first combiner circuit and

the splitter circuit and electrically coupled between the internal signal amplifier

circuit and the splitter circuit.

Serial No. 09/764,544

Examiner: Beliveau, Scott

Art Unit: 2614

17. (original) The cable distribution module of Claim 16 wherein the cable input

receives a cable television (CATV) signal in a first frequency band and wherein

each of the at least one internal video signal inputs has an associated frequency

band different from the first frequency band so that a receiver connected to one

of the plurality of connection points may select one of the CATV signal or the at

least one internal video signal as a received signal by tuning to an associated

frequency band for one of the signals.

18. (original) The cable distribution module of Claim 16 wherein the at least one

internal video signal input comprises a plurality of internal video signal inputs and

wherein the module farther comprises a third combiner circuit coupling the

plurality of internal video signal inputs to the internal signal amplifier circuit.

19. (original) The cable distribution module of Claim 13 wherein the splitter circuit

includes more than 16 connection points.

20. (original) The cable distribution module of Claim 19 wherein the splitter circuit

includes at least 32 connection points.

21. (currently amended) A video distribution module for routing a video

connection to a plurality of connection points, the module comprising:

Serial No. 09/764.544

Examiner: Beliveau, Scott

Art Unit: 2614

Art Unit: 2614

a video input configured to receive a video signal from at least one of an

antenna or a cable network;

a two stage amplifier circuit electrically coupled between the video input

and the plurality of connection points, the two stage amplifier circuit including a

first stage amplifier having a high signal gain and a low noise figure and a second

stage amplifier having a high output power and a low distortion wherein an output

of said first stage amplifier is electrically coupled to an input of said second stage

amplifier; and

a splitter circuit coupled between the two stage amplifier circuit and the

plurality of connection points.

22. (original) The video distribution module of Claim 21 further comprising:

at least one internal video signal input;

an internal signal amplifier circuit electrically coupled to the at least one

internal video signal input; and

a combiner circuit coupled between the two stage amplifier circuit and the

splitter circuit and electrically coupled between the internal signal amplifier circuit

and the splitter circuit.

23. (original) The video cable distribution module of Claim 22 wherein the output

power of the second stage amplifier is greater than 23 decibels (dB) and wherein

Serial No. 09/764,544

Examiner: Beliveau, Scott

the distortion of the second stage amplifier is no greater than about CTB 56 dBc,

CSO 58 dBc.

24. (original) The video distribution module of Claim 23 wherein the signal gain of

the first stage amplifier is greater than 15 decibels (dB) and the noise figure of

the first stage amplifier is less than 3.5 dB.

25. (original) The video amplifier circuit of Claim 24 wherein the noise figure of

the first stage amplifier is less than 1.5 dB.

26. (original) The video distribution module of claim 24 wherein the splitter circuit

includes more than 16 connection points.

27. (original) The video distribution module of Claim 26 wherein the splitter circuit

includes at least 32 connection points.

Serial No. 09/764,544

Examiner: Beliveau, Scott

Art Unit: 2614